I claim:

1. A circuit configuration for controlling the transmitting power of a battery-operated transceiver, the circuit configuration comprising:

a battery for providing a supply voltage;

a power stage for controllable amplification of a radio-frequency signal, said power stage having a gain;

a comparison device, said comparison device having an input side for receiving a reference signal and a signal coupled to the supply voltage, and said comparison device having an output side for supplying a difference signal; and

a control device for controlling the gain of said power stage in dependence on the difference signal.

2. The circuit configuration according to claim 1, wherein said control device includes a logic element for generating a difference between the difference signal and a further reference signal, said logic element having an output for supplying a control signal to be supplied to said power stage for controlling the gain of said power stage.

3. The circuit configuration according to claim 1, including a voltage divider having an input side connected between terminals for the supply voltage and an output side connected to an input of said comparison device.

4. The circuit configuration according to claim 2, wherein said control device includes a measuring device for measuring power of a signal output by said power stage and a further comparison device, said further comparison device having an input side coupled to an output of said measuring device and to the output of said logic element, and said further comparison device having an output side for supplying the control signal for controlling power of said power stage.

5. The circuit configuration according to claim 4, wherein said measuring device includes a directional coupler having a coupling element coupled to an output of said power stage, an element connected to said coupling element for detecting a radio-frequency amplitude, and a resistor connected between said coupling element and an input of said further comparison device.

6. The circuit configuration according to claim 5, wherein said coupling element detects a wave moving away from said power stage and has a gate, and said element detecting the

radio-frequency amplitude is a Schottky diode connected to the gate of said coupling element.

7. The circuit configuration according to claim 1, including a digitally operating functional unit supplied by the supply voltage, said functional unit generating a switching-off signal in dependence on the supply voltage for switching off a transceiver.

8. A circuit configuration for controlling the transmitting power of a battery-operated transceiver in a mobile telephone for operation in a cellular telephone network, the circuit configuration comprising:

a battery for providing a supply voltage;

a power stage for controllable amplification of a radio-frequency signal, said power stage having a gain;

a comparison device, said comparison device having an input side for receiving a reference signal and a signal coupled to the supply voltage, and said comparison device having an output side for supplying a difference signal; and

a control device for controlling the gain of said power stage in dependence on the difference signal.